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The following are downtimes for 2008 and 2009

| DSS-24 Ka-Band Phase 2 downtime starts November 4 2008 through January 31, 2009 (weeks 45 − 5). □ TERRA ACQ AID Demo's were scheduled for weeks 49 & 50 of 2008 and RTS demo tracks are scheduled for weeks 3, 4 & 5 of 2009 for CAS, CHDR, MUSC, SOHO, WIND and TERRA (Proficiency). |
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| DSS-43 downtime for Life Extension and Depot Level Maintenance is scheduled for January 5 through April 12, 2009, weeks 2 – 15 DTRR approved the start of the downtime. |
| Complex preventative maintenance "Apollo Tie-Line Electrical Maintenance" This has been scheduled for 008/1645-0630 (week 2 of 2009). All conflicts have been resolved. |
| DSS-26 downtime for X/KA HMT Maintenance is planned for 3 days, February 10, 11 & 12 of |
| 2009. □ Also scheduled during this time is a request for Ka-band Upgrade. |
| DSS-14 3-day Grouting is planned for April of 2009 week 16. □ Scheduled for DOYs 107 - 109. □ Still a few conflicts to be resolved at conflict negotiation meeting. |
| Complex preventative maintenance "Echo Tie-Line Electrical Maintenance" has been moved to start after the Apollo Tie-Line Electrical Maintenance. Kepler launch is scheduled for DOY 064 Preparing a proposal for week 11, DOY 71/1330-72/0100 between KEPLER tracks, this downtime is 11.5 hours. |
| Complex corrective maintenance "G86/G81 Transfer Switch Electrical Maintenance" Will look for time in late March or April. |
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The following are downtimes for 2008 and 2009 (cont'd)

- □ DSS-63 downtime for El Bearing Replacement and Depot Level Maintenance (including grouting) is re-scheduled for May 4 through June 28, 2009, weeks 19 - 26.
 - All supports have been moved to other antenna during this downtime.
 Additional time will be added to the 2011 downtime.
- □ DSS-54 downtime for Ka-Band Phase 2 is scheduled for June 29 through September 27, 2009, weeks 27 - 39.
 - ☐ This downtime must end prior to the end of the fiscal year.
- □ DSS-14 downtime for Life Extension and Depot Level Maintenance will start October 3, 2009 and end May 2, 2010 weeks 40-17
 - ☐ Requesting an additional 2 weeks extension to end in week 19
 - □ Should we propose this at the IND Customer Forum or start negotiations now?
 - ☐ Most conflicts can be resolved. VGR1 ASCAL is requesting DSS-14 but will ask if it can be moved to DSS-43 or DSS-63 or to another date after week 19.

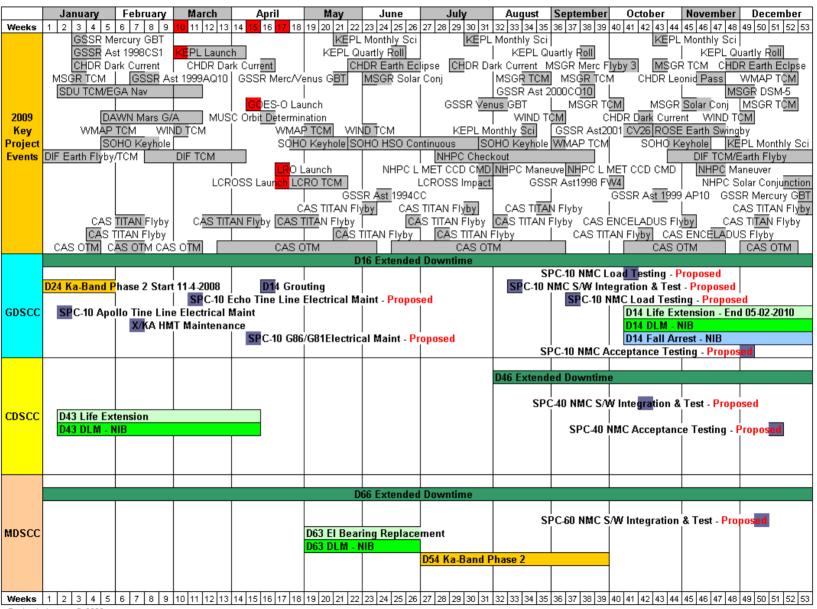
The following are downtimes for 2010 through 2012

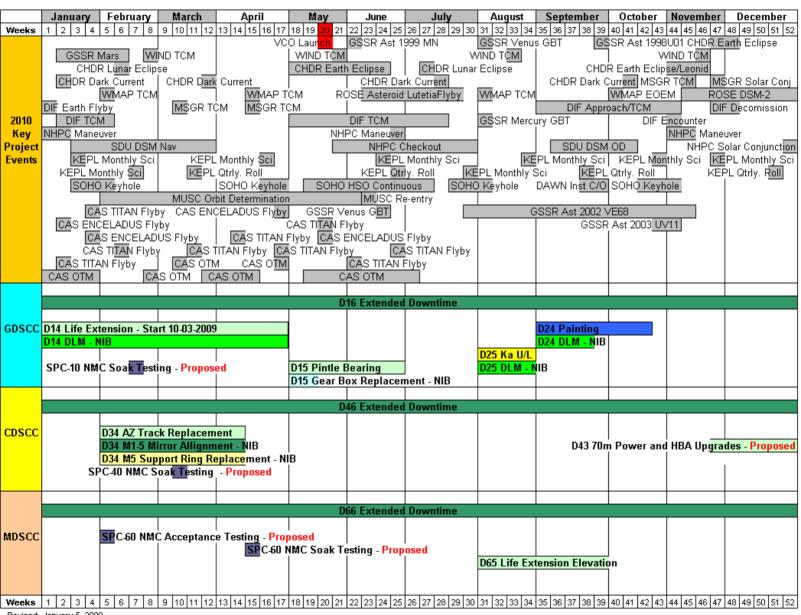
| DSS-34 downtime for Azimuth Track Replacement is scheduled February 1 through April 11, 2010, weeks 5 – 14. This also includes M1-5 Mirror Alignment and M5 Support Ring Replacement. |
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| DSS-15 downtime for Pintle Bearing is scheduled for May 3 through June 27, 2010, weeks 18 - 25. |
| □ This is being proposed to start May 31 through July 25, 2010, weeks 22 – 29. □ DSS-15 Elevation Gearbox Replacement will be scheduled NIB in weeks 22 & 23 |
| DSS-25 downtime for Ka U/L is scheduled for August 2 − 29, 2010 weeks 31 − 34. □ Depot Level Maintenance will be scheduled during this downtime. |
| DSS-65 downtime for Life Extension Elevation is scheduled for August 2 through October 3, 2010, weeks 31 - 39. All supports have been moved to other antenna during this downtime. |
| DSS-24 downtime for painting is scheduled August 24 through October 18, 2010 weeks 35 − 42 □ All supports have been moved to other antenna during this downtime. □ There will be complete 24/7 downtime for the first 4 weeks and dayshift downtime (1400-0200) for the remaining weeks. □ Depot Level Maintenance will be scheduled the first 4 weeks of this downtime. |
| As a result of the reduction of downtime for DSS-43 & DSS-63 in 2008 & 2009, it is requested to recover that time in 2010 and 2011, local spring, summer or fall after DSS-14 RTS. DSS-43 is proposed for November 2010 thru February 2011 after EPOXI encounter. DSS-63 is proposed for April 4, through September 4 of 2011 weeks 14 – 35, after Messenger MOI. |

The following are downtimes for 2010 through 2012 (cont'd)

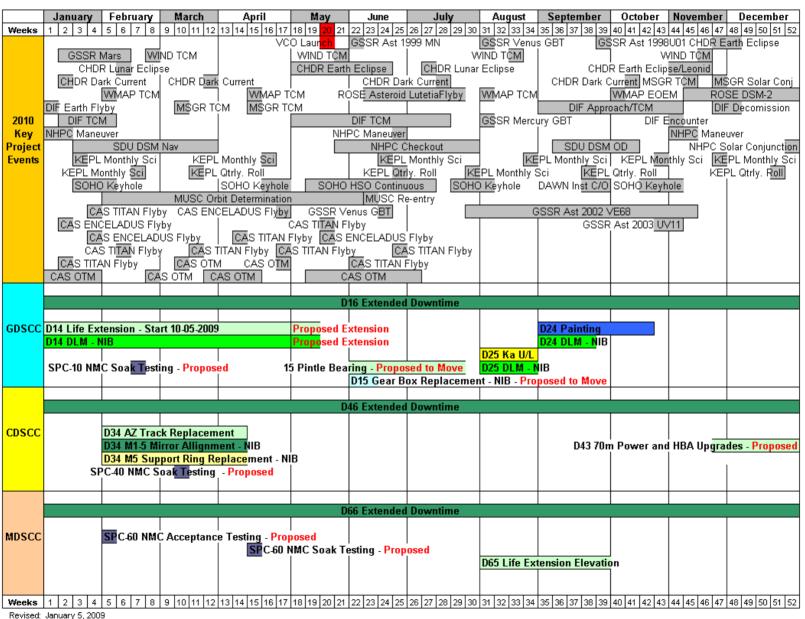
through November 4, 2012 weeks 35 – 44. Need further analysis.

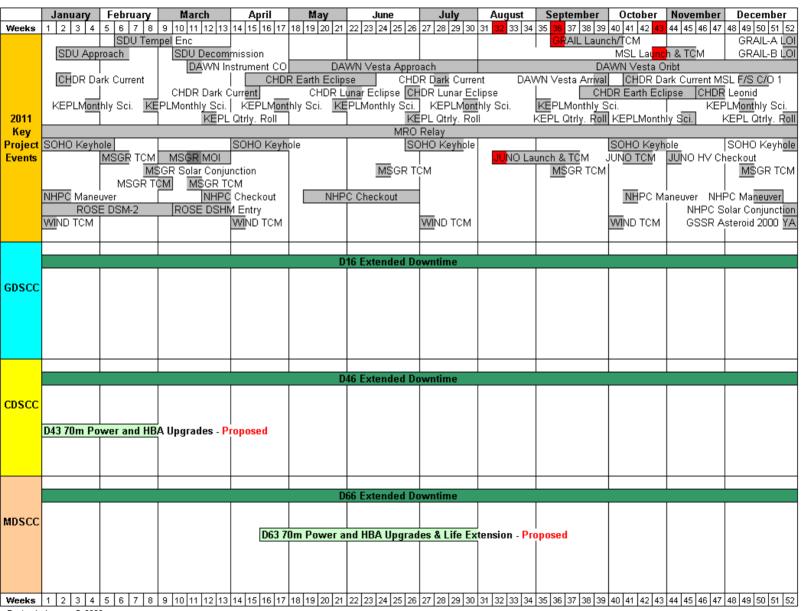
DSS-26 downtime for Depot Level Maintenance will be scheduled during the September through November time frame in 2011 or 2012.
 Requesting a minimum of 4 weeks for this task. Can this be done during the AZ Track Replacement?
 AZ Track Replacement is needed for DSS-24, 25, 26, 54 and 55 starting in 2012 in the spring and fall, 1 per complex.
 Per conversation with Tim Sink, the following order of completion should be used – DSS-25, 26, 24 and 54. DSS-55 does not need the downtime right now. Will check later on when we need to do it.
 Proposing DSS-25 for February 27 through May 6, 2012, weeks 9 – 18 and DSS-26 for August 27

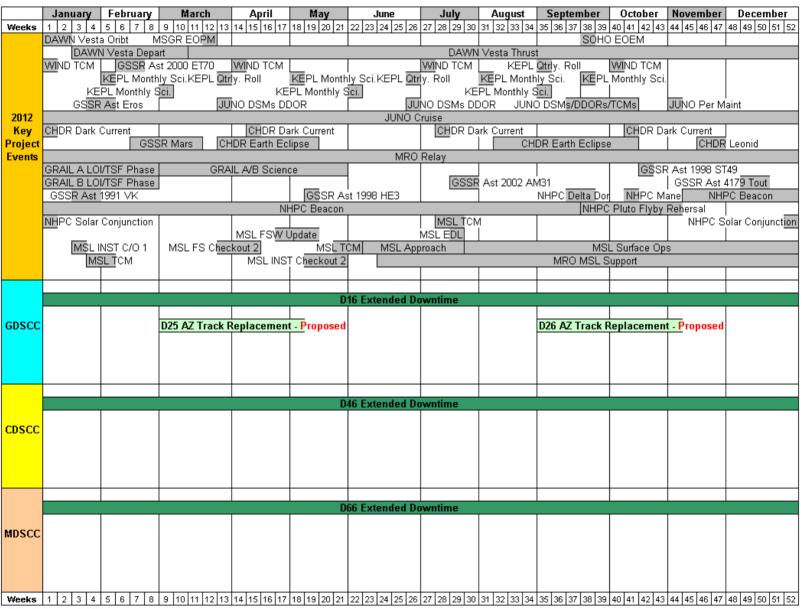




Antenna Downtime Proposed Moves 2010







DSN Resource Implementation Planning Matrix By Subnet

| | | | S-Band | | X-Band | | Ka-Band | | Ka |
|------------|--------------|---------|--------|---|--------|-----|---------|----------|----------|
| Complex | Station | Subnet | Down | Up | Down | Up | Down | Up | Phase 2 |
| 40 | DSS-46 | 26M* | ۲ | > | N/A | N/A | N/A | N/A | N/A |
| 10 | DSS-27 | 34HSB | ۲ | > | N/A | N/A | N/A | N/A | N/A |
| 10 | DSS-24 | 34B1 | ۲ | > | > | ۲ | N/A | N/A | 02/01/09 |
| 40 | DSS-34 | 34B1 | ۲ | • | ۲ | 4 | > | N/A | 02/01/09 |
| 60 | DSS-54 | 34B1 | > | > | > | ۶ | ۶ | N/A | 09/27/09 |
| 10 | DSS-25 | 34B2 | N/A | N/A | * | * | ~ | 08/29/10 | N/A |
| 10 | DSS-26 | 34B2 | N/A | N/A | ۲ | 4 | > | N/A | N/A |
| 60 | DSS-55 | 34B2 | N/A | N/A | > | > | > | N/A | N/A |
| 10 | DSS-15 | 34HEF | ۲ | N/A | > | ۲ | N/A | N/A | N/A |
| 40 | DSS-45 | 34HEF | ۲ | • | > | ۶ | N/A | N/A | N/A |
| 60 | DSS-65 | 34HEF | > | > | > | ۶ | N/A | N/A | N/A |
| 10 | DSS-14 | 70M | < | > | * | 4 | N/A | N/A | N/A |
| 40 | DSS-43 | 70M | ۲ | > | > | > | N/A | N/A | N/A |
| 60 | DSS-63 | 70M | ٧ | > | > | > | N/A | N/A | N/A |
| N/A = Capa | bility Not F | Planned | | xx/xx/xx = Capability Date Recently Change: | | | | As of: | 01/05/09 |

✓ ✓ = Capability Recently Exists

▼ = Capability Exists

* = To Be Decommissioned